Vol. 50, No. 2 ISSN 0027-965X March–April 1995

NATIONAL LIBRARY of MEDICINE NEWS

Published for institutions and individuals interested in health sciences communications.

NLM's Spann Named Associate Director, Specialized Information Services

National Library of Medicine Director **Donald A. B. Lindberg**, M.D., has named **Melvin L. Spann**, Ph.D., to direct the Library's Specialized Information Services Division (SIS). Dr. Spann has been chief of SIS's Biomedical Information Services Branch since 1978.

Dr. Spann

Dr. Spann, a chemist, came to NLM in 1976 to manage NLM's CHEMLINE file. Prior to his NLM appointment, he had spent ten years with the Food and Drug Administration, first as a chemical information specialist and then as chief of FDA's Scientific Information Systems Design Branch.

A graduate of Howard University with a B.S. in chemistry, Dr. Spann was appointed to head the Biomedical Information Services Branch of SIS in 1978, where he has been responsible for managing a variety of information products and services concerning toxic substances and their effects on health. These include computer-based files (e.g., TOXLINE and the Registry of Toxic Effects of Chemical Substances) and both conventional and microcomputer-based user training aids.

He has also been responsible for directing a toxicology information outreach project to strengthen the capacity of Historically Black Colleges and Universities to train medical and other health professionals in the use of toxicological, environmental, occupational, and hazardous waste information resources developed by NLM. He serves on the Environmental Justice Subcommittee of the HHS Environmental Health Policy Committee.

Dr. Spann received his Ph.D. in chemistry and computer systems in 1979 from The American University in Washington, D.C., where he is presently an adjunct professor in the Chemistry Department.

SIS is the Library component responsible for the Toxicology Information Program—with its family of databases and databanks on toxicology and environmental health—and other NLM information services such as the Directory of Information Resources Online (DIRLINE) and services related to HIV/AIDS. It has a staff of 34. In addition to the Biomedical Information Services Branch, the Division includes the Hazardous Substances Information Office and the Biomedical Files Implementation Branch.

Dr. Spann has been active in the American Chemical Society, the American Association for the Advancement of Science, and the Chemical Society of Washington. His numerous awards include the NIH Director's Award; Blacks in Government, NIH Chapter, Outstanding Manager's Award; and several NLM equal employment opportunity awards. □

NATIONAL LIBRARY of MEDICINE NEWS

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The Secretary of Health and Human Services has determined that the publication of this bimonthly periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through June 30, 1995.

The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984, effective with Vol. 43, No. 6-7.

Monograph & Serial Gaps

NLM regularly seeks the help of the medical library community in filling gaps in its monograph and serial collections. If you can provide any of these items we would be most grateful.

Monographs

If you are able to provide a copy of any of the monographs listed below, please send to:

National Library of Medicine
TSD-MONOGRAPHS Attn: L. Turnage
Bethesda, MD 20894

Konturek, S.J. Gastric secretion: basic and clinical aspects. Stuttgart: Georg Thieme Verlag, 1981.

Meyer, R.G. Law for the psychotherapist. 1st ed. New York: Norton, c1988.

Ornish, Dean. Stress, diet, and your heart. 1st ed. New York: Holt, Rinehart and Winston, 1983.

Rose, A.H.; Harrison, J.S., editors. Yeasts and the environment. 2nd ed. London; Orlando: Academic Press, 1987. (The Yeasts; v.2)

Schatten, H.; Schatten, G., editors. Molecular biology of fertilization. San Diego: Academic Press, c1989.

Sieberth, H.G. Plasma exchange: Plasmapheresis, plasmaseparation: International Symposium in Cologne, on 6th and 7th June 1980. Stuttgart: F.K. Schattauer Verlag, 1980.

Wadsworth, B.J. Piaget's theory of cognitive and affective development. 4th ed. New York: Longman, c1989.

Serial Gaps

Please address serial issues to:

National Library of Medicine
TSD-GAPS Attn: C. Fields
Bethesda, MD 20894

American Journal of Human Genetics 54:4, 1994
American Journal of Surgery 162:6, 1991
Annual Conference on Research in Medical Education 17th, 1978
British Journal of Audiology 11:1, 1977
British Journal of Clinical Practice. Symposium Supplement 1, 1978; 41:Suppl 51, 1987
Cancer Chemotherapy Reports. Part 3 1:2, 1969; 2:2, 1971; 5:2-3, 1974
Disasters 10:4, 1986
Entechnology 1-4,6-9,11-12, 1985; 1-8,10-12, 1986, 9, 1986
Environmental Biology and Medicine 2:4, 1976
European Journal of Anaesthesiology 7:1-6, 1990; 10:5-6, 1993
Immunology Series 10, 198?; 22, 198?
Journal of Clinical Neuro-Ophthalmology 8:2, 1988
Journal of Nervous and Mental Disease 179:10-11, 1991
Laboratory Animals 18:1, 1984
Obstetrical and Gynecological Survey 38:2, 1983; 48:10, 1993; 49:4, 1994
Science 252:5009, 1991
Woman Physician 25:3, 1970 □

Exhibit on Medical Ephemera Opens May 22

Here Today, Here Tomorrow: Varieties of Medical Ephemera—an exhibit of printed medical ephemera from the collections of **William H. Helfand** and the National Library of Medicine—will be on display in the Library's main lobby from May 22 through September 11, 1995.

The exhibit presents a lively and colorful collection of medical and pharmaceutical ephemera, dating from the early 19th century to the present. Organized around the themes of women, children, the medicine show, public health, AIDS, medical education, and addiction, the exhibit demonstrates the ways in which ephemeral materials—the "transitory" and commonplace documents of everyday life—educate the public and reflect the cultural values of the time. Seen within these diverse contexts, medical ephemera provide a window through which to view the social place of medicine in history.

Included in the exhibit is a variety of printed ephemera: posters, pamphlets, business and trade cards, handbills, broadsides, postcards, advertising flyers, cartoons, and other items. Highlighted is a rich and varied collection of medical, dental, and pharmaceutical bookplates covering a wide range of subjects, including diseases, instruments, and medical specialties. In addition, there is a videodisc presentation on the subject of medical ephemera, narrated by the exhibit's curator, Mr. Helfand.

For further information, contact **Sheila O'Neill**, curator of modern manuscripts, History of Medicine Division: *phone:* 301/496-5405 or e-mail: *sheila_o'neill@occshost.nlm.nih.gov.*

Come to the exhibit to see the other side of this proprietary medicine trade card.

Erratum

The fact sheet "AIDS Information Resources," which appeared on pages 12–13 of the last issue of the *News*, contained incorrect price and ordering information for the monthly *AIDS Bibliography*. The annual subscription price is $84; the GPO List ID is AID95. For a copy of the corrected fact sheet, send an e-mail request to *publicinfo@nlm.nih.gov* or download a copy using the NLM Gopher or via anonymous ftp from *nlmpubs.nlm.nih.gov*.

Exhibit Hours

The exhibit may be viewed during the Library's regular hours: 8:30 a.m. to 5:00 p.m., weekdays; Saturday, 8:30 a.m. to 12:30 p.m.; closed Sunday. Before Memorial Day and after Labor Day, the Library is open until 9:00 p.m. on Thursdays. It is closed for the Memorial Day and Labor Day weekends and on July 4th. (The History of Medicine Division closes weekdays at 5:00 and is not open on Saturdays.)

NLM at MLA

The 1995 annual meeting of the Medical Library Association will be held in Washington, D.C., this year, May 5–10, followed by the International Congress on Medical Librarianship (ICML). The ICML sessions begin Wednesday, May 10, the last of MLA meetings, and continue through May 12.

Listed below are a sampling of events which involve the National Library of Medicine or in which NLM products and services will be discussed. Please see the final program for additional items and further details.

Medical Library Association

Friday, May 5

CE Courses:

- Understanding and Using Medical Terminology
- Descriptive Cataloging: Applications, Problems, Solutions
- MeSH and NLM Classification for Catalogers
- Health Statistics Sources
- Clinical Epidemiology for Librarians

Saturday, May 6

CE Courses (MLA):

- Information Technology Leadership Skills (advanced course)
- Biotechnology Information: NLM Databases

CE Course (ICML):

- Information Resources in Toxicology and Environmental Health [including NLM's ToxGopher on the Internet]; conducted at the National Library of Medicine.

Sunday, May 7

Joseph Leiter NLM/MLA Lecture

- Daniel R. Masys, M.D., former LHC director and now director of biomedical informatics, School of Medicine, University of California-San Diego, La Jolla, California, speaks on "The Informatics of Health Care Reform."

Lunch and Learn:

- NLM staff discuss plans for new MEDLARS databases and features; DOCLINE activities; Internet access.

Second Annual Fixed-Fee User Group Meeting

Sunday, May 7; 4:00 p.m. to 6:00 p.m.; Jefferson East Room. Presentations by current fixed-fee customers; designed for those seeking MEDLINE access at a fixed cost, hospital libraries looking for ways to sell their administrations on the Internet, and others interested in hearing about the use of fixed-fee programs in small hospitals, large medical centers, and universities.

Monday, May 8

NLM Update, featuring reports by **Donald A.B. Lindberg**, M.D., NLM director; **Betsy L. Humphreys**, assistant director for health services research information; **Alexa T. McCray**, Ph.D., newly appointed chief of the Cognitive Science Branch (formerly Education Technology Branch); and **Lois Ann Colaianni**, associate director, Library Operations.

Section/SIG Programming:

- A Longitudinal Study of Hospital Libraries in the Pacific Southwest Region of NN/LM
- Health and Drug Information via the Information Superhighway, including "Comparing International Pharmaceutical Abstracts and MEDLINE," and "Accessing GenBank Using Internet and E-Mail"

Friends of NLM Special Event:

- Friends of NLM will enter the world of Alice Roosevelt Longworth and other socialites of the 1920s in the Mansion on "O" Street (tickets, $10 for members; $20 for nonmembers).

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Tuesday, May 9

Section/SIG Programming:

- MEDCONNECT: How an NLM Grant Improved the Technical Infrastructure of Information Transfer in Colorado

Informal Session of SERHOLD Coordinators

Wednesday, May 10

Section/SIG Programming:

- Medical Informatics including: recent advances, "Library Without Walls," digital full-text journals, Metathesaurus Browser
- The Unified Medical Language System Project of the NLM
- Promotion of Health Information Access via Grateful Med and Loansome Doc

Thursday, May 11

CE Courses (MLA):

- Grateful Med Searching: Advanced Features/ Troubleshooting
- Structure of MeSH
- Health Services Research Information

International Congress on Medical Librarianship

Wednesday, May 10

The ICML for 1995 is planned around four plenary sessions that will explore the theme "Health Information for the Global Village" and show how new technology makes health information available throughout the world.

- *Keynote Address:* **Donald A.B. Lindberg**, M.D., director, NLM
- *Plenary Session I:* Health Care Delivery in the Global Village, "Telemedicine: the Medicine Wagon on the Information Superhighway," **Michael J. Ackerman**, Ph.D., National Coordination Office, High Performance Computing and Communications; **Jan Van Bemmel**, M.D., Department of Medical Informatics, Erasmus University, Rotterdam, will talk on automated medical records during the same session.

Section/SIG Programming:

- Networking Rural America: Diversified Clients/ Diversified Needs (including: "Promotion of Health Information Access via Grateful Med and Loansome Doc: Why Isn't It Working?")

Thursday, May 11

- *Plenary Session II:* Health Information Resources: **Astrid Heiberg**, M.D., Department of Psychiatry, University of Oslo, and **Gladys Faba Baumont**, Ph.D., director, Centro Nacional de Informacion y Documentacion en Salud, Mexico, on Resources on Women's Health in the Developing and Developed World; **Gören Falkenberg**, M.D., director, MIC, Karolinska Institutet, Sweden, and **Matthew Lewis**, HIVNET, the Netherlands, on HIV and AIDS Resources.

NLM Exhibit Booth: Island F

Be sure to visit the NLM exhibit booth featuring demonstrations of the NLM Internet-accessible Resources. In addition there will be special presentations on the Visible Human Project, the UMLS Knowledge Source Server, HSTAT, and Spaceline (a new database being developed in cooperation with NASA).

Tour of NLM:

At registration, sign up for "Tour T12," for an afternoon of programs and tours at the National Library of Medicine.

Friday, May 12

Lunchtime Seminars: (concurrent)

- NLM: Improving Your Access to Health Information on the Global Highway. [NLM staff discuss future plans; feedback from the audience is encouraged.]
- NASA: Spaceline, a New Space and Life Sciences Database. [NLM & NASA have teamed up to produce a database with references to health and productivity of humans in space, applications of space life-sciences research, exobiology, etc.] □

Staff Notes

Within the last few months, NLM said farewell to several long-time staff members and to a wealth of experience and knowledge about the Library and its operations. Of six retirees from key positions at NLM, five have been with us since the early 70s (one of those since 1968). The sixth, Dr. Richard Hsieh, though a newcomer in comparison, has been a part of the staff for almost nine years. We wish them all well in their retirement and thank them for their years of dedication and service.

Harry D. Bennett, deputy director for operations in NLM's Office of Computer and Communications Systems (OCCS), has had 40 years' experience in the field of data processing and information systems as a mathematician, marketing representative, special scientific specialist, entrepreneur, and manager. This includes over 4 years as a corporate executive and technical director, and 21 years as a government executive at NLM.

Mr. Bennett previously worked for IBM, VIP Systems, and Deltak, Inc., before joining the staff of NLM in 1973. Since that time, he has held the position here of either deputy director or director of OCCS. In these positions he was responsible for managing all aspects of the MEDLARS and database management systems and for the online MEDLINE and TOXLINE services.

His first position at NLM was as deputy director, OCCS, where from 1973 to 1977 he managed all operational aspects of the NLM computer center during the transition of services to MEDLARS II and a production online interactive retrieval system. In 1977 he became director, OCCS, and was responsible for development, planning, implementation, programming, monitoring, operation, and management of all production data processing services. In addition he managed the design and construction of a new computer facility for NLM, coordinated the procurement of a new computer system, and coordinated the transfer operation without interruption of NLM services. In 1983 he became deputy director for operations, a position he held until his retirement. In this position he was responsible for managing all operational aspects of NLM data processing services. From 1991 to 1994 he concurrently held the position of acting director of OCCS.

Mr. Bennett has been active in the Association for Computer Machinery, the Society for Industrial and Applied Mathematics, and the Medical Library Association. He has received a number of "outstanding performance" awards, and received a Special Performance Award from the Library in 1993.

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Kenneth G. Carney has been NLM's executive officer since 1981, and has been with the Library since 1968. His career spanned almost 42 years of federal service, 37 of those years at NIH, and 27 at the Library.

At age 17, he began working at the Army Map Service as a map maker. While attending American University he returned to the federal government as an illustrator in the Medical Arts Division of NIH and, after receiving his degree, he was selected for an administrative assistant position, later becoming a senior administrative officer.

His first position at NLM was deputy grants and contracts management officer in Extramural Programs; he later served as grants management officer. In 1971, he became staff assistant to the executive officer, then senior management analyst, and in 1979, deputy executive officer.

In 1981, NLM director Dr. Martin M. Cummings selected Mr. Carney as the Library's top administrator—the executive officer. The 14 years since that appointment were ones of great expansion of the Library's programs and services—new components such as the National Center for Biotechnology Information were added, new databases developed, and a new director brought his own vision of NLM's future. Mr. Carney was the one who helped implement much of this progress.

In 1977, he received the NIH Merit Award "in recognition of significant contributions to the admin-

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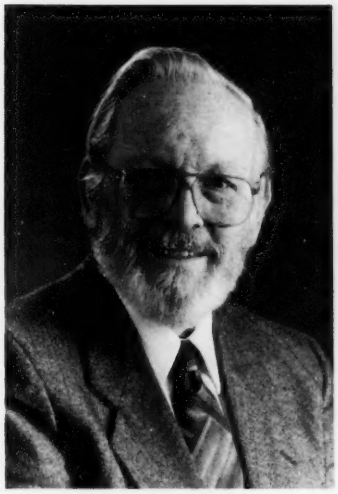
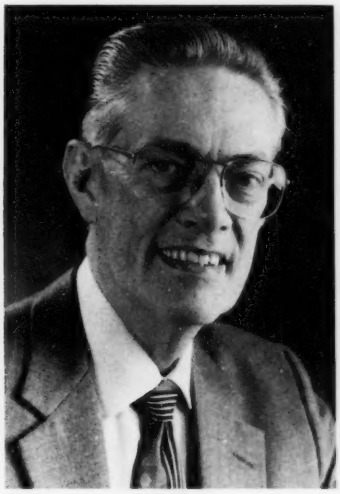
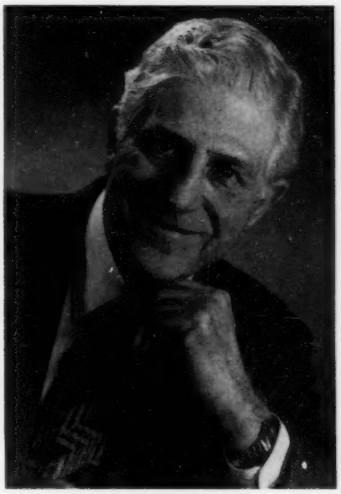


Mr. Bennett



Mr. Carney



Dr. Cosmides

istrative management of NLM and innovative development of a program analysis and legislation function at the NLM." In 1983, he received the NLM Director's Award for his "outstanding contributions to the advancement of the Library's mission,' and also upon his retirement for "exceptional expertise in administrative management and for exemplifying the highest standards of public service."

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George J. Cosmides, Ph.D., deputy director of the Library's Specialized Information Services (SIS) since 1974, retired after more than 38 years of federal service. For over 20 years, Dr. Cosmides has provided leadership in developing responsive online databases and data banks in chemistry, toxicology, and environmental health (CHEMLINE, ChemID, TOXLINE, Hazardous Substances Data Bank, and 16 more databases) that are now maintained and deployed by NLM.

While he was a senior scientist at Smith, Kline & French Laboratories in Philadelphia, he helped develop the first major psychotropic drugs used in the United States. These were the phenothiazines—Chlorpromazine, Compazine, and Stelazine—which have made a dramatic impact on the therapy of mental and emotional diseases since mid-1950. He came to the National Institute of Mental Health in 1959, to help establish the new field of psychopharmacology. He and colleagues created the Psychopharmacology Service Center at NIMH.

In 1963, while at the National Institute of General Medicine Sciences, NIH, Dr. Cosmides took charge of the Pharmacology and Toxicology Training Program; he also served as executive secretary of the pharmacology training committee and the behavioral sciences training committee—instrumental in supporting most major university training in both domains.

In 1968, fascinated with the potential development of computer and communications technology at NLM, he recommended the establishment of a national computer-based program able to track the world's literature and handle the explosion of published information. The current Toxicology and Environmental Health Information Program, organized in 1968, has been a major SIS activity since Dr. Cosmides moved to NLM in 1974.

Dr. Cosmides is a member of the American Society for Pharmacology and Experimental Therapeutics and is a Fellow of the American Association for the Advancement of Science, which gave him their Distinguished Lecture Award in 1971. He also received the Distinguished Alumnus Award from the University of Pittsburgh in 1966.

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Richard K.C. Hsieh, Dr.P.H., was appointed director for International Programs in 1986. He brought to NLM some 30 years of experience in health services research, computer applications in medicine, and research grants management.

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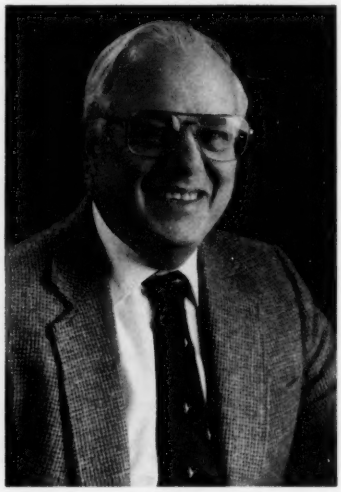
Dr. Hsieh

Ms. Schuyler



Mr. Vasta

In 1966, he joined the federal government to develop a "Medical Care Administration" research program in the U.S. Public Health Service Hospital and Clinic System. Medical care administration research was relatively new when the Surgeon General called upon the PHS to engage in "research in ways of providing health services," in addition to more traditional clinical and basic medical research. In the relatively short time of six years, a health services program was established in five PHS Hospitals with an annual budget of two million dollars.

From 1981 to 1986, he served as the health scientist administrator for managing operations of the Chartered Cancer Clinical Investigation Review Committee, which reviews and recommends group clinical trial grant applications in the National Cancer Institute.

Dr. Hsieh is a member of the Operations Research Society of America and a Fellow of the American Public Health Association and of the American Association for Medical Systems and Informatics.

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Peri Schuyler, head of NLM's Medical Subject Headings Section since 1981, retired in March. She began her federal career as a chemist with the Food and Drug Administration in Washington, D.C., then joined the staff of the Institute for Scientific Information in Philadelphia, Pennsylvania as an indexer. In 1971, she became a part of NLM's Index Section, and in 1978, was named head of its Unit A. She there developed requirements for the online indexing system, helped develop an automated system for input and maintenance of chemical records, and was an instructor in MEDLARS online and indexing training.

In 1981, she accepted the position of deputy chief of the Bibliographic Services Division, where she developed and implemented an online indexing system, served as project officer for database-related agreements, and served on numerous committees associated with database design and development.

In 1988, she was selected to head the Medical Subject Headings Section, which is responsible for development and maintenance of the vocabulary used in indexing and cataloging, and for implementing the recommendations of the Literature Selection Technical Review Committee with respect to *Index Medicus* journal selection. In this position she has also served as associate editor of *Index Medicus* and has been involved in the development and maintenance of the Unified Medical Language System.

Ms. Schuyler received the NIH Merit Award in 1983, and in 1991, she received the NLM Director's Award for "outstanding work to increase the utility of NLM's Medical Subject Headings and to support the development of the Unified Medical Language System."

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Bruno M. Vasta, chief of the Biomedical Files Implementations Branch of Specialized Information Services, and TOXNET administrator since 1983, retired from NLM after nearly 35 years of federal service. He has been involved in the information science field for over 25 years, served on numerous national and international committees, and has been actively involved in several professional societies, serving as chairman of both the American Chemical Society's Division of Chemical Information and of the American Society for Information Sciences.

Mr. Vasta joined NLM in the early 70s and spent nearly nine years here serving first as chief of Toxicology Information Services, where he was instrumental in building TOXLINE and CHEMLINE, and later as chief of the Bibliographic Services Division. He then accepted the position of director of the EPA's, Chemical Information Division, where he was responsible for providing information support systems and for building the Toxic Substances Control Inventory.

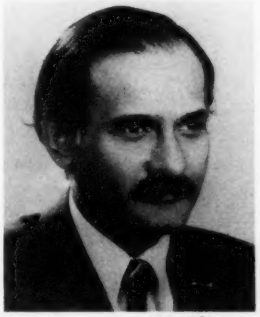
In 1983, he returned to NLM to head SIS's Biomedical Files Implementation Branch, where he was responsible for the design, implementation and maintenance of all factual, numeric, and full-text databases dealing with toxicology, hazardous substances, and environmental health effects information. In addition he had overall responsibility for NLM's Toxicology Data Network (TOXNET) system, that provides an important alternative for online access to toxicological and environmental health information. He was primarily responsible for the design of this integrated system used to build, edit, maintain, peer review, track, search, and retrieve chemical records from 18 difference databases. One of the most significant achievements was the redesign of TOXNET into a client/server microprocessor cluster operating in a distributed architecture that has resulted in significant savings each year for the Library.

In his federal career, Mr. Vasta also worked with the Bureau of Foods, Food and Drug Administration and the Bureau of Veterinary Medicine where he served as Science Information Officer in charge of automating new and investigational drug applications.

Mr. Vasta has received numerous awards and honors, culminating with the NIH Director's Award, "in recognition of leadership, creativity, and vision in building and reconfiguring the TOXNET system providing valuable toxicological information to the entire biomedical community." □

Dr. Thoma Receives 1995 Federal 100 Award

George R. Thoma, Ph.D., of NLM's Lister Hill National Center for Biomedical Communications, has received *Federal Computer Week's (FCW)* Federal 100 Award of 1995. Dr. Thoma, chief of the Lister Hill Center's Communications Engineering Branch, developed prototype systems designed to deliver document and X-ray images to medical professionals and students throughout the world. The document delivery system is said to stand a good chance of revolutionizing the concept of interlibrary loans and, in time, may allow NLM to respond to document requests by faxing or printing scanned images of journals for users nationwide.



Dr. Thoma

Dr. Thoma also developed the concept of an electronic archive of digitized X-rays accessible by remote radiographic display workstations over the Internet. "The concept of providing access to to information regardless of location is fundamental to the whole area of health care," said **Earl Henderson**, deputy director, LHC.

The group of 100 executives receiving the award are from government, industry, and academia and are nominated by FCW's readers. An independent panel of judges makes the final selection based on work deemed to have had the greatest impact on the government systems community in 1994. Winners were recognized in a special supplement to FCW's March 6th issue and on March 21st at a reception and dinner at the Capitol Hilton in Washington, D.C. □

Norman Smith Dies

Long-time staff of the National Library of Medicine were saddened to hear of the death, on April 10, of **Norman K. Smith.** Smitty, as he was called by one and all, retired 10 years ago as administrative officer of NLM's Library Operations Division. He served Lois Ann Colaianni, NLM associate director for Library Operations, and for many years her predecessor, Dr. Joseph Leiter, as a chief administrative assistant.

Smitty first came to the National Institutes of Health in 1942, and he served in the Division of Industrial Hygiene, the National Cancer Institute, and the National Institute of Allergy and Infectious Diseases before coming to the NLM in 1966. He will be missed by the many friends who kept in touch with him, and his wife Clare, in retirement. Expressions of sympathy may be addressed to the family (including son and daughter-in-law, Alan and Nancy) at 1122 Charlotte Ave., Rock Hill, SC 29732. Contributions in Smitty's memory may be sent to the York County Hospice, 325 South Oakland Ave., Rock Hill, SC 29730 (phone: 803/239-4663). □

NLM Receives Gift from Northwestern University Medical Library

More than 40 boxes of journal volumes missing or needing replacement in the NLM collection were received at NLM in February. As part of a weeding process at the Galter Health Science Library, the staff prepared a list which NLM searched against its collection. Approximately 50 individual volumes of some 17 serial titles filled gaps in the NLM collection. About 40 additional serial runs were sent to NLM to replace volumes which were too brittle or worn. A total of 334 pieces were shipped to NLM to help complete its collection.

NLM encourages libraries weeding their collections to search the LOCATOR file, which lists gaps identified in the NLM collection. If a library is withdrawing a volume listed as missing in the NLM collection, NLM would appreciate receiving the volume. Please send together with a printout of the LOCATOR record to:

TSD–GAPS
Serial Records Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

NLM does not have complete gap listings for material published prior to 1970. If the film records in the LOCATOR file indicate a broken run, libraries are encouraged to contact NLM for a shelf check of older material. Inquires may be directed to:

Carol Unger
Preservation Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
e-mail: *carol_unger@occshost.nlm.nih.gov* □

1995 Discover Awards Honor "Visible Human"

The editors of *Discover Magazine* have selected "The Visible Human Project" (*News,* Nov–Dec 1994) as one of five finalists in the category "Computer Software," for the magazine's 1995 Discover Awards for Technological Innovation. The finalists were chosen from thousands of entries in seven categories.

The project officers for the "Visible Human," **Michael J. Ackerman**, Ph.D., and **Donald A.B. Lindberg**, M.D., were cited by the magazine for developing "a complete human database...[to] simplify the study of human anatomy by providing a realistic reference guide to human physiology."

The winners, to be announced at a gala on April 29 at Epcot '95, will be chosen by a diverse panel of judges, including film critic Gene Siskel, singer Ray Charles, astronaut James Lovell, and magicians Penn and Teller. The "Visible Human Project" will be featured in a special June 1995 awards issue of *Discover* and has already been the subject of several broadcasts on the Discovery cable TV channel. □

Libraries Contribute to NLM Preservation Microfilming Program

NLM began its current preservation microfilming program in late 1986. As of the end of February 1995, more than 58,000 brittle volumes have been filmed.

NLM's microfilm is intended to serve as national preservation masters. Once paper-based volumes become too deteriorated for use, other libraries can rely on NLM to make them available on microfilm.

Since individual serial titles will be filmed only once, it is important that each title be filmed in as complete a run as possible. When gaps in specific titles selected for filming are identified, NLM's Preservation and Collection Management staff borrow copies from U.S. biomedical and other libraries that hold volumes or issues missing from the NLM collection. If no U.S. sources can be found, requests are occasionally sent to libraries in other countries.

The response to these requests has been uniformly positive. Since the inception of the program, 4,412 items have been borrowed from 70 U.S. and 12 foreign libraries. NLM wishes to thank all who have participated in this ongoing cooperative preservation effort. □

The names of the cooperating libraries are listed in the Internet-accessible version of the Mar–Apr 1995 *NLM News*. See Fact Sheet, page 13, for details on Internet access to NLM publications, including the *News*.

Publications

NLM Classification: Binding Errors

A small percentage of copies of the recently released *NLM Classification, Fifth Edition* (*News*, Nov–Dec 1994, Jan–Feb 1995) have been found to have binding defects, primarily missing pages. Please check your copies carefully and report defective copies to the U.S. Government Printing Office. Claims for replacement copies should be accompanied by a copy of the order and proof of payment, and sent to: U.S.G.P.O., Publications Services Section, Stop: SSOS, Washington, DC 20402-9329. Phone: 202/512-1803; fax: 202/512-2168.

Errors in the text proper, or questions about the content of the *Classification,* should be sent to the attention of **Christa F.B. Hoffmann**, head, Cataloging Section *(christa_hoffmann@ccmail.nlm.nih.gov).*

For a description of the *Classification* and ordering information, see the fact sheet printed in this issue, page 15. □

NLM in Print

The following references cite works that discuss the products and services of the National Library of Medicine. If you know of other appropriate citations for this column, please send reprints or references to the editor, *NLM News,* National Library of Medicine, Bethesda, MD 20894. (Note: Some of the articles below may be from journals that are out of scope for the NLM collection and are therefore not available from the Library on interlibrary loan.)

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NATIONAL INSTITUTES OF HEALTH
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FACT SHEET
A World of Knowledge for the Nation's Health
March 1995

NATIONAL LIBRARY OF MEDICINE (NLM) INTERNET-ACCESSIBLE RESOURCES

Introduction

NLM provides many services to the biomedical library community using the capabilities of the Internet. Internet users can reach these services through basic Internet processes, such as telnet and ftp (file transfer protocol), or through software clients such as Gopher for Gopher servers and Mosaic, Netscape, or other browsers for World Wide Web servers. This fact sheet describes the services that NLM makes available over the Internet.

World Wide Web (WWW) Servers

NLM provides documents and access to many services through its World Wide Web servers. Users must have a Web client, such as Mosaic (available for Unix, Macintosh, and MS Windows), Netscape, or MacWeb. The WWW allows NLM to distribute information in a publication-look format and to include hypertext links to documents, photographs, sound files, video clips, and online telnet sessions. There is no charge for most services.

NLM's Home Page, called HyperDOC, (http://www.nlm.nih.gov/) provides information about Library programs, connections to NLM online services, and links to specialized NLM Web servers such as the Educational Technology Branch (ETB) World Wide Web server (http://wwwetb.nlm.nih.gov/). The ETB Web server has information about computer and multimedia technologies related to health professions education. The National Center for Biotechnology Information (NCBI) also has a Web server (http://www.ncbi.nlm.nih.gov/) that provides information about the GenBank® DNA sequence database. It also provides GenBank searching, and information about other DNA and protein databases. Scientists can submit sequences directly to GenBank on the Web with a submission tool called BankIt.

Gopher Servers

The NLM Gopher (gopher://gopher.nlm.nih.gov/) uses the Gopher server protocol developed at the University of Minnesota. NLM publications, telnet sessions to online services, and links to specialized NLM Gophers are available. The Gopher menu makes it simple for users to browse publications, search them by textword, and transfer the publication over the Internet for local use. Gopher also permits users to connect via telnet to NLM online services including MEDLARS®, TOXNET®, Locator, and DOCLINE®. Accounts are required for MEDLARS, TOXNET, and DOCLINE; other services are offered at no charge. Specialized information is available from the NLM Gopher including toxicology and environmental health information and AIDS information. Users without access to a gopher program may telnet to the NLM Gopher (telnet to gopher.nlm.nih.gov, login as gopher) and view and e-mail themselves text files from the NLM and NIH gophers.

Anonymous ftp servers

NLM distributes many publications and software programs via anonymous ftp (ftp://nlmpubs.nlm.nih.gov/). NLM publications including fact sheets, bibliographies, AIDS information, and newsletters are available. The publications server provides many documents in both ASCII text and PostScript formats. These two formats allow users to select either plain text files that contain all the textual information or a PostScript file that allows printing the publication in its original format. Some files are also available in WordPerfect format. Users with only e-mail access to the Internet may obtain publications from the anonymous ftp server. Sending a message to mailserv@nlm.nih.gov with only the word help in the message body will return basic instructions on this process. NCBI also has an anonymous ftp site (ftp://ncbi.nlm.nih.gov/). Through this service, NCBI makes available GenBank and other sequence databases, submission software, Entrez software, and documentation.

HSTAT

HSTAT (Health Services/Technology Assessment Texts) is a free, electronic resource that provides access to the full text of clinical practice guidelines and other documents useful in health care decision making. HSTAT is available via the NLM Full-Text Retrieval System (FTRS) which provides a menu-driven interface to the text. The FTRS can be accessed through telnet to text.nlm.nih.gov and login as hstat

or HSTAT. The HSTAT resource is available via anonymous ftp (nlmpubs.nlm.nih.gov in the /hstat directory) and on the NLM Gopher (gopher://gopher.nlm.nih.gov/) and the NLM HyperDOC Home Page (http://www.nlm.nih.gov/ and select NLM Online Information Services, then HSTAT).

Locator

NLM Locator is a client-server interface that allows menu-driven Internet access to NLM's CATLINE® (cataloged records of monographs and serials), AVLINE® (audiovisuals), and SERLINE® (serials owned by NLM and other libraries). NLM designed Locator for novice or infrequent users to access the files representing the NLM collection. The interface requires no training and allows searching these files without learning NLM's interactive command-driven search interface. To access Locator, use VT100 emulation and telnet to locator.nlm.nih.gov, login as locator.

Services available via telnet

Many of NLM's established services are available over the Internet through telnet. These services include MEDLARS, TOXNET, and DOCLINE. The MEDLARS system includes MEDLINE® and other biomedical databases covering AIDS, bioethics, cancer, chemicals, organizations, health planning and administration, history of medicine, population information, and toxicology. Individuals with accounts may telnet to medlars.nlm.nih.gov. The TOXNET system and its various databases are part of the MEDLARS system. Individuals with MEDLARS accounts may telnet to medlars.nlm.nih.gov. A FILE TOXNET command will take users via the gateway into TOXNET databases. DOCLINE is NLM's automated interlibrary loan request and referral system for biomedical libraries. Registered libraries may telnet to DOCLINE at medlars.nlm.nih.gov.

Summary

NLM provides many services via the Internet. The easiest way for new Internet users to learn more about NLM and its Internet services is to use a tool such as Gopher or a World Wide Web browser. Using this software, users may explore the various documents and services which are available. For further information, contact NLM program areas by e-mail.

NLM E-mail addresses (Internet)

Office of Public Information
publicinfo@occshost.nlm.nih.gov

Anonymous ftp service
ftpadmin@nlmpubs.nlm.nih.gov

Grateful Med assistance
gmhelp@gmedserv.nlm.nih.gov

Gopher services
admin@gopher.nlm.nih.gov

History of Medicine Division
hmdref@nlm.nih.gov

Interlibrary Loan/DOCLINE
ill@nlm.nih.gov

International Programs Office
hsieh@nlm.nih.gov

Mailserv service
admin@mailserv.nlm.nih.gov

MEDLARS Management Section
mms@nlm.nih.gov

MeSH® vocabulary suggestions
meshsugg@nlm.nih.gov

National Center for Biotechnology Information (NCBI) info@ncbi.nlm.nih.gov

National Information Center on Health Services Research and Health Care Technology
nichsr@nlm.nih.gov

Online Images from the History of Medicine
oli@nlm.nih.gov

Planning and Evaluation Office
siegel@nlm.nih.gov

Preservation information
pres@nlm.nih.gov

Reference assistance
ref@nlm.nih.gov

Technical services assistance
tsd@nlm.nih.gov

Toxicology and Environmental Health Information Program tehip@teh.nlm.nih.gov

NATIONAL INSTITUTES OF HEALTH
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FACT SHEET

A World of Knowledge for the Nation's Health

January 1995

NLM CLASSIFICATION

The **National Library of Medicine Classification** covers the field of medicine and related sciences. The scheme is a system of classification intended to be used for the shelf arrangement of all library materials, regardless of format. Designed as a broad classification, it is suitable for both large and small library collections and may be adapted to handle specialized collections of any size.

The **NLM Classification** is a system of mixed notation patterned after the **Library of Congress (LC) Classification** where alphabetical letters which denote broad subject categories are further subdivided by numbers. The **NLM Classification** utilizes schedules QS-QZ and W-WZ, permanently excluded from the **LC Classification Schedules** and is intended to be used with the LC schedules which supplement the **NLM Classification** for subjects bordering on medicine and for general reference materials. The LC schedules for Human Anatomy (QM), Microbiology (QR), and Medicine (R) are not used at all by the National Library of Medicine since they overlap the **NLM Classification.**

OUTLINE OF NLM CLASSIFICATION

Preclinical Sciences:

QS	Human Anatomy
QT	Physiology
QU	Biochemistry
QV	Pharmacology
QW	Microbiology and Immunology
QX	Parasitology
QY	Clinical Pathology
QZ	Pathology

Medicine and Related Subjects:

W	Health Professions
WA	Public Health
WB	Practice of Medicine
WC	Communicable Diseases
WD 100	Nutrition Disorders
WD 200	Metabolic Diseases
WD 300	Immunologic and Collagen Diseases. Hypersensitivity
WD 400	Animal Poisons
WD 500	Plant Poisons
WD 600	Diseases and Injuries Caused by Physical Agents
WD 700	Aviation and Space Medicine
WE	Musculoskeletal System
WF	Respiratory System
WG	Cardiovascular System
WH	Hemic and Lymphatic Systems
WI	Digestive System
WJ	Urogenital System
WK	Endocrine System
WL	Nervous System
WM	Psychiatry
WN	Radiology. Diagnostic Imaging
WO	Surgery
WP	Gynecology
WQ	Obstetrics
WR	Dermatology
WS	Pediatrics
WT	Geriatrics. Chronic Disease
WU	Dentistry. Oral Surgery
WV	Otolaryngology
WW	Ophthalmology
WX	Hospitals and Other Health Facilities
WY	Nursing
WZ	History of Medicine
19th Century Schedule	

HISTORY

A preliminary edition of the Library's **Classification** was issued in 1948, and the first edition was published in 1951 as the **Army Medical Library Classification.** It firmly established the current structure of the classification as well as NLM's classification practices. The headings for the individual schedules are given in brief form (e.g., WE - Musculoskeletal System; WG - Cardiovascular System) and together they provide an outline of the subjects that constitute the **NLM Classification.** These headings are interpreted broadly and include the physiological system, the specialty or specialties connected with them, the regions of the body chiefly concerned and subordinate related fields. The **Classification** is hierarchical, and within each schedule, division by organ usually has priority. Each main schedule, as well as some sections within a schedule, begins with a group of form numbers ranging generally from 1-49 which are used to classify materials by publication type, e.g., dictionaries, atlases, laboratory manuals, etc.

The main schedules QS-QZ, W-WY, and WZ (excluding WZ 220-270) are used to classify works published after 1913; the 19th century schedule is used for works published 1801-1913; and WZ 220-270 is used to provide century groupings for works published before 1801 and Americana. Geographic subdivision is provided for certain subjects in the NLM schedules by the application of Table G.

The fifth edition, published in 1994, contains close to 4,000 classification numbers and a comprehensive index containing over 18,000 index terms including both the index entries and cross references. Approximately 300 new classification numbers were added including form numbers which are repeated in applicable schedules across the entire classification scheme. While most of the index entries are in the current forms of MeSH® descriptors, some are in non-MeSH forms when no appropriate MeSH term is available to express a concept.

The fifth edition of the **National Library of Medicine Classification, 1994** can be ordered from the Superintendent of Documents, U.S. Government Printing Office. The price for the new edition is $40.00 (domestic) and $50.00 (foreign), and the stock number is 017-052-00319-4.

Send your order by mail to:

New Orders, Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954

Or by fax to:

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For further information on the **NLM Classification,** write:

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The National Library of Medicine
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